

Summary of p+p 200 GeV run15

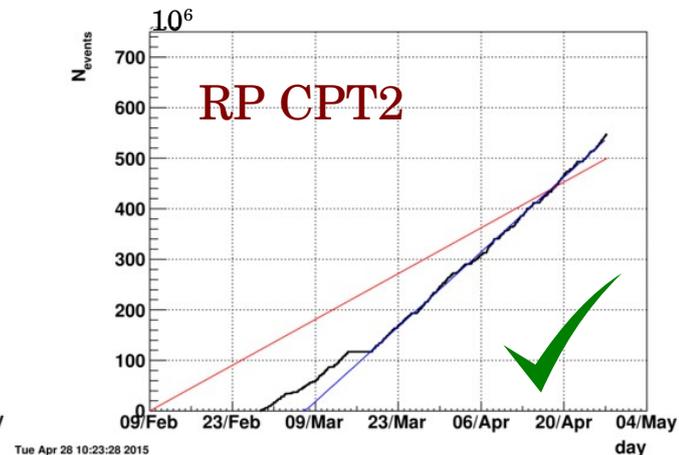
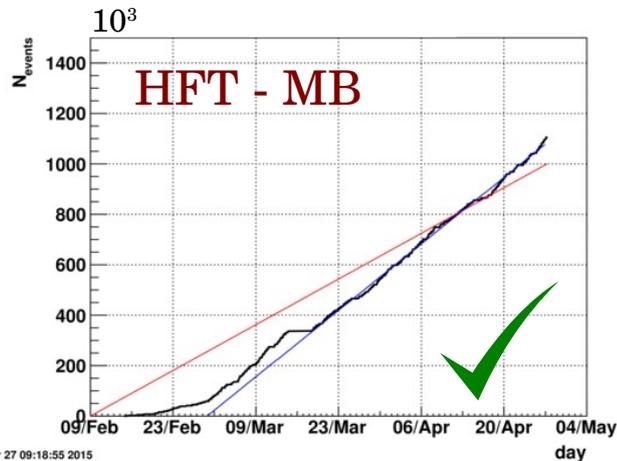
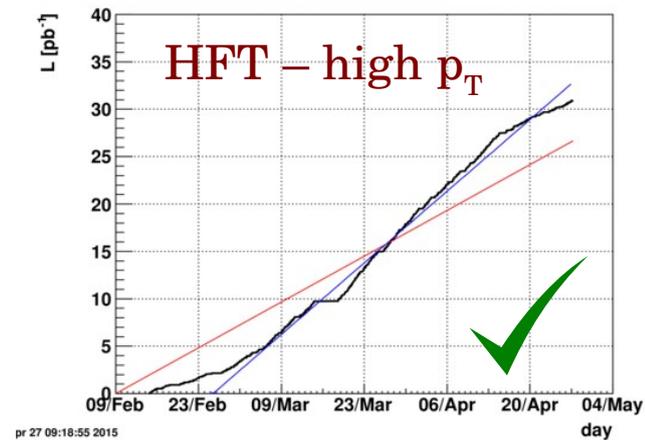
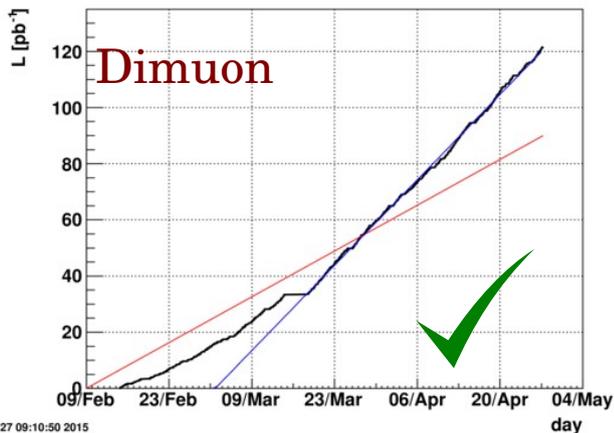
Mustafa Mustafa
LBL

Time Meeting
2015, Apr. 28th



Unpolarized p+p:

- Dimuon goal exceeded by ~30%.
- HFT minimum bias exceeded.
- HFT high p_T exceeded by ~15%.
- RP goal exceeded.



Transversely Polarized p+p:

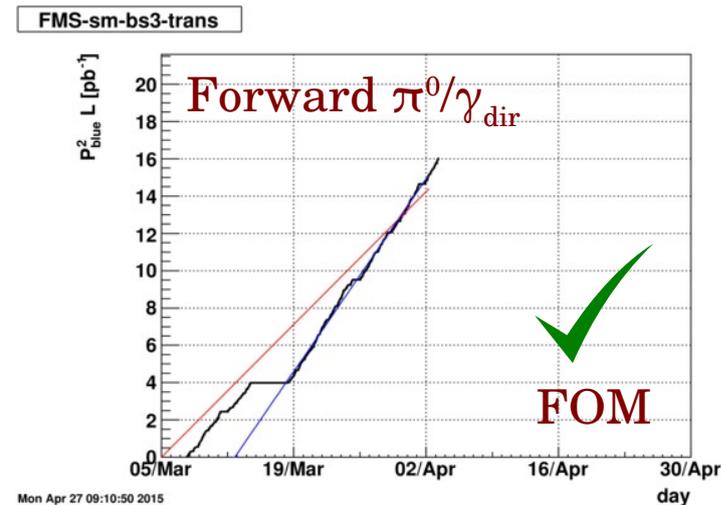
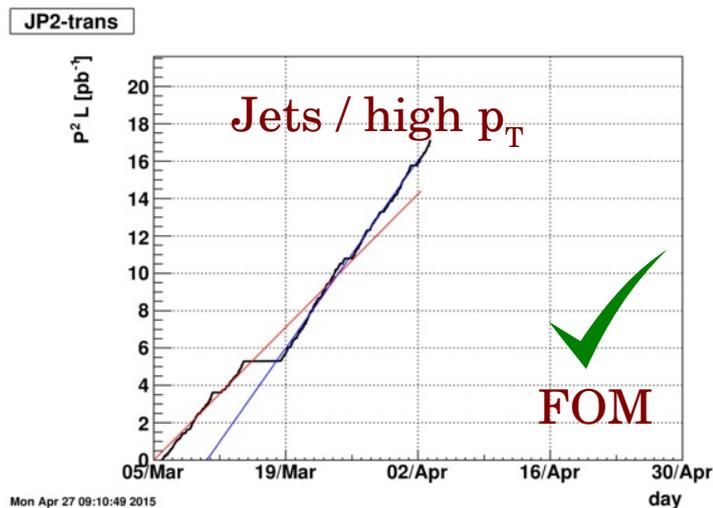
- Goal:

$$L = 40 \text{ pb}^{-1}$$

$$P = 60\%$$

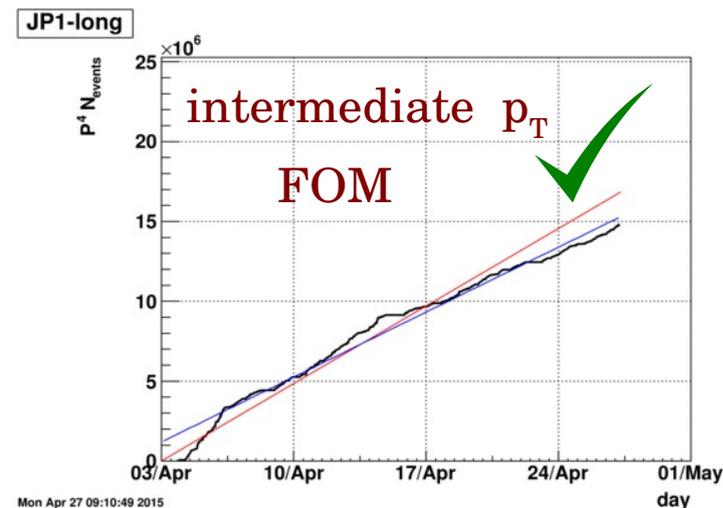
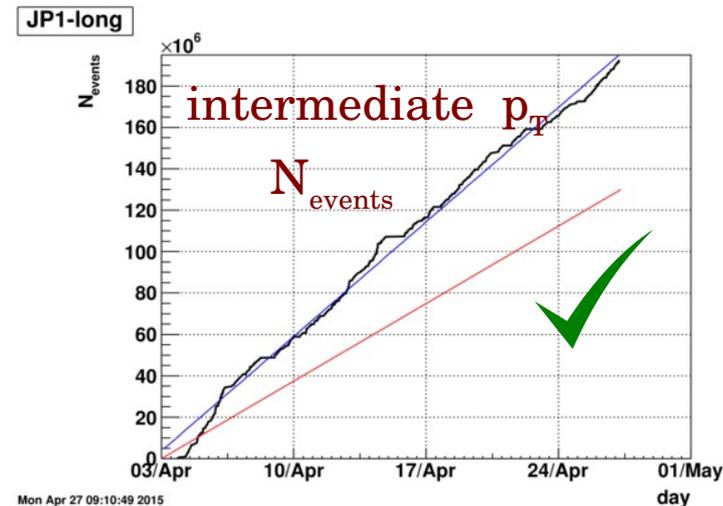
$$P^2 * L (\text{FOM}) = 14.4 \text{ pb}^{-1}$$

goals exceeded by 15%.



Longitudinally Polarized p+p:

Intermediate p_T goal met.



Longitudinally Polarized p+p:

- JP2 Goal:

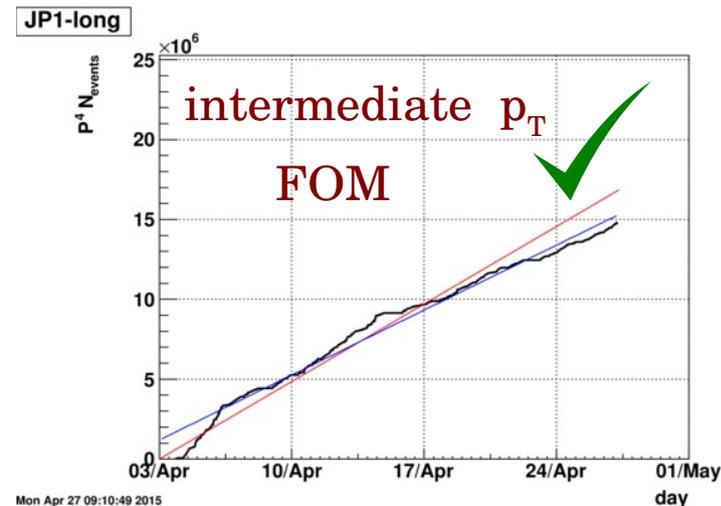
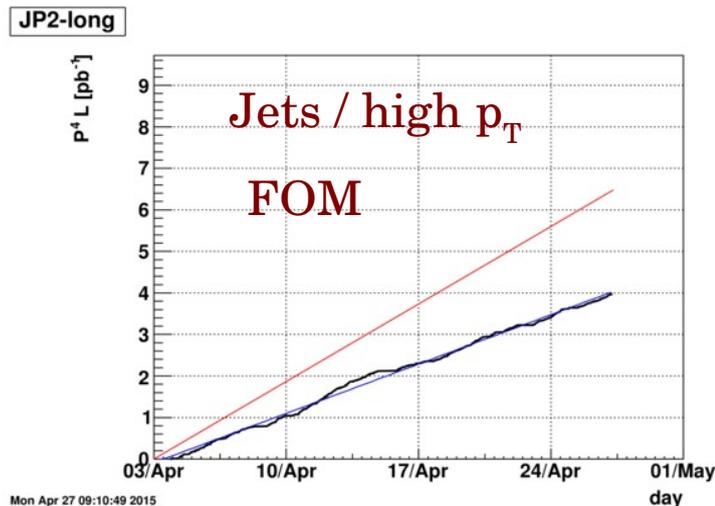
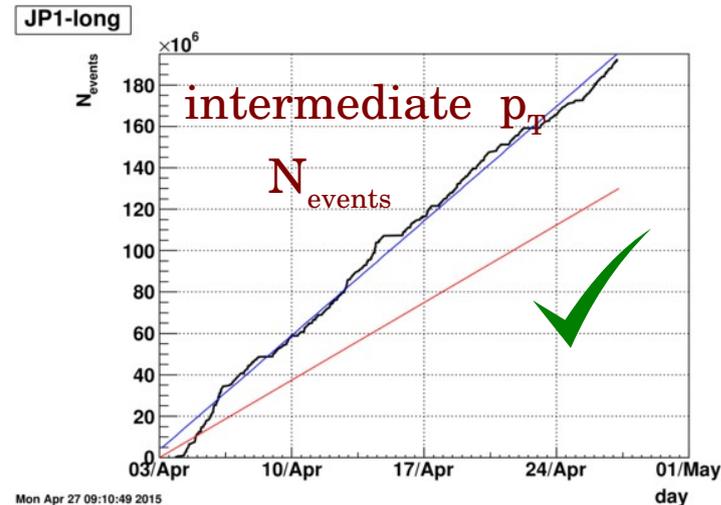
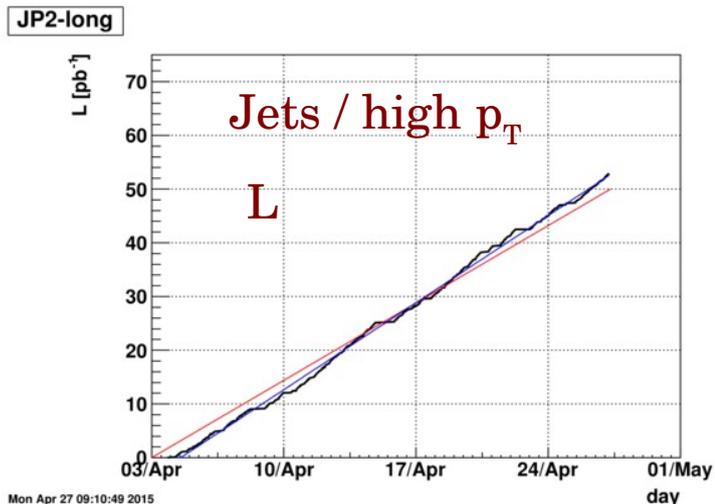
$$L = 50 \text{ pb}^{-1}$$

$$P = 60\%$$

$$P^4 * L = 6.5 \text{ pb}^{-1}$$

Intermediate p_T goal met.

JP2 FOM is 60% of the goal.



Summary:

- STAR successfully met all of its goals for HFT, Dimuon, RP programs.
- STAR successfully met its transversely polarized p+p goals.
- STAR reached 60% of its longitudinally polarized p+p FOM goal.
- STAR collected special 9 M Elastic Trigger events for elastic cross-section measurement.

Thank you for every bunch crossing you have provided!